## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Claim 1 (currently amended): An image capture device, comprising:

an illumination source connected to a power source;

a model of simulation circuit, wherein said simulation circuit simulates said illumination source, said simulation circuit comprising a circuit having a model output and a circuit input, wherein said circuit input is connected to said power source; and,

an exposure adjustment <u>device coupled to said circuit output, wherein</u> exposure adjustment device compensates that is changed to compensate for changes in said illumination source as indicated by said model circuit output.

Claim 2 (currently amended): The image capture device of claim 1 wherein said model has a model input and said model circuit input is provides an indication of the on times and the off times of said illumination source.

Claim 3 (original): The image capture device of claim 2, further comprising:

an ambient temperature sensor producing a sensed ambient temperature wherein said exposure adjustment is also changed to compensate for said sensed ambient temperature.

Claim 4 (original): The image capture device of claim 3 wherein said illumination source is at least one light emitting diode.

Claim 5 (currently amended): The image capture device of claim 4 wherein said simulation circuit model of said illumination source comprises a capacitor and a resistor.

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Claim 6 (currently amended): The image capture device of claim 4 whi rein said simulation circuit model of said illumination source comprises an inductor and a resistor.

Claim 7 (original): The image capture device of claim 4 wherein said exposure adjustment changes said on times of said illumination source.

Claim 8 (currently amended): A method of compensating for changes in an illumination source, said method comprising:

modeling said simulating said illumination source using a circuit, said circuit comprising an input and an output; and,

applying a potential to said illumination source and the input of said circuit; monitoring the potential of the output of said circuit; and

adjusting an exposure to compensate for changes in said illumination source based on said potential of the output of said circuit as indicated by said modeling.

Claim 9 (currently amended): The method of claim 8 wherein said modeling circuit provides has an input that is an indication of the on times and the off times of said illumination source.

Claim 10 (original): The method of claim 9 further comprising:
sensing an ambient temperature; and,
adjusting said exposure to compensate for said ambient temperature.

Claim 11 (original): The method of claim 10 wherein said Illumination source is at least one light emitting diode.

Claim 12 (currently amended): The method of claim 11 wherein said <u>circuit</u> comprises at least one capacitor that is charged and discharged modeling is performed by charging and discharging a capacitor.

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Claim 13 (currently amended): The method of claim 12 wherein said the charging and discharging of said at least one capacitor is done through at least one resistor.

Claim 14 (currently amended): The method of claim 11 wherein said modeling circuit comprises at least one inductor that energized and de-energized is performed by energizing and de-energizing an inductor.

Claim 15 (original): The method of claim 14 wherein the rate of energizing and de-energizing is determined by at least one resistor.

Claim 16 (original): An article of manufacture comprising a program storage medium having computer readable program code means embodied therein for causing the adjustment of an exposure, the computer readable program code means in said article of manufacture comprising:

computer readable program code means for causing a computer to read an indication of an illumination sources brightness from a model;

computer readable program code means for causing said computer to adjust said exposure based on said indication of said illumination sources brightness.

Claim 17 (original): The article of manufacture of claim 16 further comprising:

computer readable program code means for causing said computer to turn on and turn off said illumination source.

Claim 18 (original): The article of manufacture of claim 17 further comprising: computer readable program code means for causing said computer to indicate to said model the on times and off times of said illumination source.

Claim 19 (original): The article of manufacture of claim 18 further comprising:

computer readable program code means for causing said computer to obtain
an indication of an ambient temperature; and,

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computer readable program code means for causing said computer to adjust said exposure based on said indication of said ambient temperature.

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Claim 20 (original): The article of manufacture of claim 19 wherein said illumination source is at least one light emitting diode.

Claim 21 (original): The article of manufacture of claim 20 wherein said model is a series resistor-capacitor circuit and said indication of said illumination sources brightness is obtained from the voltage across said capacitor.

Claim 22 (original): The article of manufacture of claim 20 wherein said model is a series resistor-inductor circuit.

Claim 23 (previously presented): An image capture device, comprising: illumination means:

modeling means, said modeling means producing a modeling means output that is indicative of said illumination means relative brightness; and,

exposure adjustment means for changing an and exposure to compensate for changes in said relative brightness of said illumination means as indicated by said modeling means output.

Claim 24(original): The image capture device of claim 23 wherein said modeling means has a modeling means input and said modeling means input is an indication of the on times and the off times of said illumination means.

Claim 25 (original): The image capture device of claim 24, further comprising: ambient temperature sensor means for producing a sensed ambient temperature wherein said exposure is also changed to compensate for said sensed ambient temperature.

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Claim 26 (original): The image captured vice of claim 25 wherein said illumination means is at least one light emitting diode.

Claim 27 (original): The image capture device of claim 26 wherein said modeling means comprises at least a capacitor and a resistor.

Claim 28 (original): The image capture device of claim 26 wherein said modeling comprises at least an inductor and a resistor.

Claim 29 (original): The image capture device of claim 26 wherein said exposure is adjusted by changing said on times of said illumination source.